

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Po Shin Francois CHIN et al.	§	Confirmation No.:	9538
		§		
I. A. Date:	January 20, 2004	§	Group Art Unit:	
		§		
Serial No.:	10/597,344	§	Examiner:	
		§		
Filed:	August 12, 2008	§	Atty. Docket No.:	2333-01000
		§		
For:	A System, A Transceiver	§	Client Ref. No.:	FP3135/JC
	Structure For Use Therein	§		
	and a Method Of Processing	§		
	Signals In Such A System	§		

**REQUEST FOR CORRECTED FILING RECEIPT**

Commissioner for Patents  
Application Assistance Unit  
PO Box 1450  
Alexandria, VA 22313-1450

Date: November 14, 2008

Sir or Madam:

Attached is a copy of the Official Filing Receipt received from the U.S. Patent and Trademark Office ("PTO") for the above-identified patent application of which issuance of a corrected Filing Receipt is respectfully requested. Please correct the first named inventor's name from "Francois Chin Po Shin" to - -Po Shin Francois CHIN- -. A marked-up copy of the Filing Receipt is attached. Copies of an Application Data Sheet 37 CFR 1.76, Declaration, and the first page of International Publication Number WO 2005/069523 (all of which were submitted to the PTO on August 12, 2008) accompany this statement and reflect the above-mentioned request.

The correction requested is due to the U.S. Patent and Trademark Office's error and it is believed that no fee is required. If any fees are inadvertently omitted or if any additional fees are required or have been overpaid, please appropriately charge or credit those fees to Conley Rose, P.C. Deposit Account No. 03-2769.

Respectfully submitted,

/David M. Wilson/

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ATTORNEY FOR APPLICANTS



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
10/597,344	08/12/2008	2628	2880	2333-01000	53	4

CONFIRMATION NO. 9538

23505

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David A. Rose

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## FILING RECEIPT



OC000000031605567

Date Mailed: 08/19/2008

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s) **Po Shin Francois CHIN**

~~Francois Chin Po Shin~~, Singapore, SINGAPORE;

Appukuttan Nair Saraswathy Amma Madhukumar, Singapore, SINGAPORE;

### Assignment For Published Patent Application

AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH, Singapore, SG

**Power of Attorney:** The patent practitioners associated with Customer Number 23505

### Domestic Priority data as claimed by applicant

This application is a 371 of PCT/SG2004/000021 01/20/2004

### Foreign Applications

**If Required, Foreign Filing License Granted:** 08/15/2008

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 10/597,344**

**Projected Publication Date:** 11/27/2008

**Non-Publication Request:** No

**Early Publication Request:** No

<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	2333-01000
		Application Number	
Title of Invention	A Method And Transmitter, Receiver And Transceiver Systems For Ultra Wideband Communication		
<p>The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.</p> <p>This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.</p>			

## Secrecy Order 37 CFR 5.2

- ☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

## Applicant Information:

<b>Applicant 1</b>				
<b>Applicant Authority</b>		<input checked="" type="radio"/> Inventor		<input type="radio"/> Legal Representative under 35 U.S.C. 117 <input type="radio"/> Party of Interest under 35 U.S.C. 118
<b>Prefix</b>	<b>Given Name</b>	<b>Middle Name</b>	<b>Family Name</b>	<b>Suffix</b>
	Po	Shin Francois	Chin	
<b>Residence Information (Select One)</b> <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service				
<b>City</b>	Singapore	<b>Country Of Residence<sup>i</sup></b>	SG	
<b>Citizenship under 37 CFR 1.41(b)<sup>i</sup></b>		SG		
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<b>Applicant 2</b>				
<b>Applicant Authority</b>		<input checked="" type="radio"/> Inventor		<input type="radio"/> Legal Representative under 35 U.S.C. 117 <input type="radio"/> Party of Interest under 35 U.S.C. 118
<b>Prefix</b>	<b>Given Name</b>	<b>Middle Name</b>	<b>Family Name</b>	<b>Suffix</b>
	Appukuttan	Nair Saraswathy Amma	Madhukumar	
<b>Residence Information (Select One)</b> <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service				
<b>City</b>	Singapore	<b>Country Of Residence<sup>i</sup></b>	SG	
<b>Citizenship under 37 CFR 1.41(b)<sup>i</sup></b>		IN		
<b>Mailing Address of Applicant:</b>				
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<b>Address 2</b>				
<b>City</b>	Singapore	<b>State/Province</b>		
<b>Postal Code</b>	600120	<b>Country<sup>i</sup></b>	SG	
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the <b>Add</b> button. <div style="text-align: right;"><input type="button" value="Add"/></div>				

## Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).
<input type="checkbox"/> An Address is being provided for the correspondence information of this application.

Sheet No. 1

**Box No. VIII (iv) DECLARATION: INVENTORSHIP** (only for the purposes of the designation of the United States of America)  
*The declaration must conform to the following standardized wording provided for in Section 214; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (iv). If this Box is not used, this sheet should not be included in the request.*

**Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv))  
 for the purposes of the designation of the United States of America:**

I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.

This declaration is directed to the international application of which it forms a part (if filing declaration with application).

This declaration is directed to international application No. PCT/SG2004/000021 (if furnishing declaration pursuant to Rule 26ter).

I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.

I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications," by application number, country or Member of the World Trade Organization, day, month and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed.

Prior Applications: .....

I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: CHIN Po Shin, Francois .....

Residence: Singapore  
 (city and either US state, if applicable, or country) .....

Mailing Address: Blk 940 Hougang St 92 #13-19, Singapore 530940 .....

Citizenship: Singapore .....

Inventor's Signature: CHAN .....

Date: 04/03/04  
 (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)

Name: MADHUKUMAR Appukuttan Nair Saraswathy Amma .....

Residence: Singapore  
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Mailing Address: Blk 120 Jurong East St 13 #01-95, Singapore 600120 .....

Citizenship: India .....

Inventor's Signature: R. Adnan .....

Date: 04 March 2004  
 (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)

☐ This declaration is continued on the following sheet, "Continuation of Box No. VIII (iv)".

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
28 July 2005 (28.07.2005)

PCT

(10) International Publication Number  
**WO 2005/069523 A1**

(51) International Patent Classification<sup>7</sup>: **H04J 13/02**,  
13/04, 13/00

(21) International Application Number:  
PCT/SG2004/000021

(22) International Filing Date: 20 January 2004 (20.01.2004)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH** [SG/SG]; 20 Biopolis Way, #07-01 Centros, Singapore 138668 (SG).

(72) Inventors; and

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(74) Agent: **WATKIN, Timothy, Lawrence, Harvey; Lloyd Wise, Tanjong Pagar, P.O. Box 636, Singapore 910816 (SG).**

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

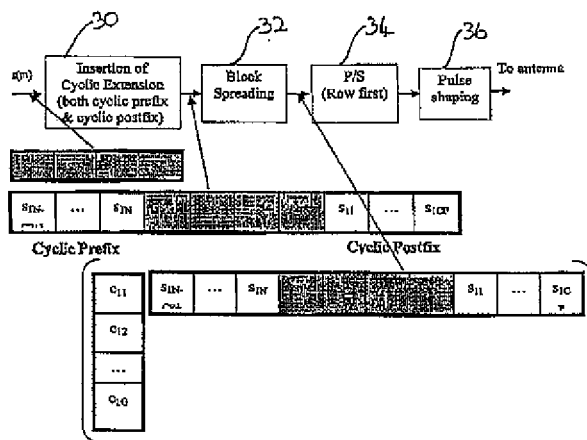
— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

[Continued on next page]

(54) Title: A SYSTEM, A TRANSCEIVER STRUCTURE FOR USE THEREIN AND A METHOD OF PROCESSING SIGNALS IN SUCH A SYSTEM



(57) Abstract: A system such as a code division multiple access (CDMA) system or an ultrawide band (UWB) system comprises a transmitter and a receiver. The transmitter includes a sequence extender for extending the incoming signal and a spreader for spreading the extended signal, the spreader input being coupled to the sequence extender output. A pulse shaper is coupled to the spreader output to provide a transmitter output signal. The transmitter output signal which has an associated chip rate is received by the receiver and is passed to a filter to select a number of input signals from the received signals. The signal is then passed to a sequence extension remover for removing a number of chips from the signal. The received signal is despread to a symbol rate which is less than the chip rate at which the received signal was spread prior to being received by the receiver. A frequency domain equalizer is provided to form a frequency equalized signal from the modified signal.